

REVISED OUTLINE FOR

JOINT ARMY-NAVY INTELLIGENCE STUDIES

(Supercedes Outline Guide of 1 July 1943)

15 November 1943

CHAPTER I

BRIEF

10. Physical Elements

- A. Orientation and Military Geography
- B. Oceanography
- C. Coasts
- D. Landing Places
- E. Meteorology and Climatology

11. Cultural Elements

- A. Cities and Towns
- B. Resources and Trade
- C. Communications
- D. Transportation
- E. Port Facilities
- F. People and Government

12. Military Elements (References only)

- A. Army (Except Air)
- B. Army Air
- C. Navy (Except Air)
- D. Navy Air

DOCUMENT NO. 16  
NO CHANGE IN CLASS. ☐  
☒ DECLASSIFIED  
CLASS. CHANGED TO: TS 3 C  
NEXT REVIEW DATE: \_\_\_\_\_  
AUTH: HR 70-2  
DATE: 1 Aug 80 REVIEWER: 018567

CHAPTER II

MILITARY GEOGRAPHY

20. General Regional Summary

(To include relief, drainage, vegetation, natural water supply and seasonal change for each of the geographic regions.)

21. Relief

- A. General
- B. Specific

(To include such material as: defensive phase lines, effects on movement, corridors, soil types, etc.)

22. Lakes, Streams and Swamps

- A. General
- B. Specific

(Detailed description of drainage characteristics of each relief region. To include such material as: drainage systems, effect on movement, width, depth, bottom, flow, banks, navigability, etc.)

23. Vegetation

- A. General
- B. Specific

(Detailed description of cultivated and uncultivated vegetation within each relief region. To include such material as: cover, concealment, fuel, forage, construction, camouflage, effect on movement and combat, etc.)

## 24. Seasonal Change

- A. General
- B. Specific

(Description for each relief region of the military implications of seasonal change on movement over the terrain; on soil; on streams, lakes, and swamps; on vegetation; and on natural water supply.)

## 25. Critical Areas

- A. General
- B. Specific

(List of critical areas with brief statement of critical nature of each.)

- C. Potential landing fields

## 26. Routes to Critical Areas

- A. General
- B. Specific

(Detailed description of each route, including: point of entry, terrain to objective, cover, concealment, compartmentization, defensive phase lines, seasonal characteristics.)

## CHAPTER III

OCEANOGRAPHY, COASTS AND LANDING PLACES

## 30. General Description

- A. Oceanography
- B. Coasts
- C. Landing Places

## 31. Oceanography

- A. Tides
- B. Tidal currents
- C. Non-tidal currents
- D. Seas and swells
- E. General discussions of hydrographic factors
- F. Surface and sub-surface temperatures
- G. Surface and sub-surface salinity
- H. Density
- I. Bottom sediments
- J. Acoustic conditions
- K. Transparency and color of water
- L. Biological factors

## 32. Coasts

- A. Details of a portion (point to point)
  - (1) Offshore zone
  - (2) Coasts
  - (3) Anchorages
  - (4) Dangers to navigation
- B. Details of a portion
- C. Details of a portion

## 33. Landing Places

- A. Specific Beach (Name)
  - (1) Location and extent (including proximity to developed areas, landmarks, shape, length, width, etc.)
  - (2) Nearshore
    - (Gradient of underwater portion to 30-foot depth; location and depths over reefs, bars, rocks, shoals; character of bottom; anchorage areas; winds; tides; currents, waves; water temperatures.)
  - (3) Landing place
    - (Physical consistency; gradient; surf and currents; structures such as groins, bulkheads, etc.; location of rivers and streams entering beach; tidal flats and salt marsh, including consistency of sand; local use; local weather peculiarities; sources of water--potable and non-potable.)

- (4) Terrain inland and on flanks of beach  
(Topography; possible exits; emergency landing place for aircraft. Location: nearest potable water; radio and telephone and telegraph, telephone and power lines and power plants; railroads, habitation.)
- B. Specific Beach (Name)  
1, 2, 3, 4, as above
- C. Specific Beach (Name)  
1, 2, 3, 4, as above

#### CHAPTER IV

##### CLIMATE AND METEOROLOGY

- 40. General Description
  - A. Climatic seasons
  - B. Climatic-synoptic regime
- 41. Weather and Operations
  - A. Air operations
  - B. Fleet operations
  - C. Amphibious operations
  - D. Ground operations
  - E. Chemical warfare
- 42. Meteorological Facilities
  - A. Service maintained
  - B. Equipment and personnel
  - C. Forecast technique

#### CHAPTER V

##### CITIES AND TOWNS

- 50. General Description
  - A. Category in 51
  - B. Category in 52
  - C. Category in 53
- 51. Description of Cities and Towns in Specific Category
  - A. Name of city
    - (1) Importance
    - (2) Physical characteristics
    - (3) Means of access
    - (4) Billeting facilities
    - (5) Buildings
    - (6) Internal transportation
    - (7) Repair and service facilities
    - (8) Public utilities
    - (9) Warehouses and storage
    - (10) Health and sanitation facilities
    - (11) Vulnerable points
    - (12) War damage estimate
  - B. Name of city or town
  - C. Name of city or town
- 52. Description of Cities and Towns in Specific Category
- 53. Description of Cities and Towns in Specific Category

## CHAPTER VI

RESOURCES AND TRADE

## 60. General Description

- A. Commerce
- B. Finance
- C. Food Resources
- D. Water supply
- E. Industrial raw materials and primary processing
- F. Electric power
- G. Manufacturing plants

## 61. Commerce

(Characteristics of traffic, regional and national export and import.)

## 62. Finance

- A. Currency (coinage, bank notes, certificates, checks)
- B. Purchasing Power
- C. Currency value in gold
- D. Banking system

## 63. Food Resources

- A. Agriculture. (Type of farming regions and production by regions including livestock, time of planting and harvesting, annual regional surplus.)
- B. Fisheries. (Production, equipment, ports and facilities.)
- C. Processing, refrigeration and storage
  - (1) Location, type of equipment, capacity, source of packaging materials, ownership of: milling; dairy, factories; canneries; drying and dehydration; slaughter houses; breweries; tobacco factories.
  - (2) Location, type of equipment, capacity, temperatures, ownership of: ice, cold storage, food freezing plants.
  - (3) Location, capacity and condition of warehouses and open storage.
  - (4) Present stocks and seasonal variations.
  - (5) Special problems of occupying force including provision of containers, preserving media, machinery, etc.

## 64. Water Supply

- A. Natural availability by region of locality
- B. Developed sources (location, type, capacity, quality)
- C. Distribution
  - (Pipes, canals, aqueducts--length, location, material, capacity, pumps and rams--type; capacity, local distribution, adequacy of supply.)
- D. Use (irrigation, town water, industrial, other).
- E. Storage
  - (Location and capacity of tanks and reservoirs and relation to distribution system.)

## 65. Industrial Raw Materials and Primary Processing

- A. Minerals
  - (Location, production, distribution; reserves, mining methods, power water fuel requirements, ownership, labor availability and quality, vulnerability to sabotage and bombing of: iron and alloy metals; non-ferrous metals; stone, clay, sand, gravel, lime, etc.; asbestos, sulfur, etc.)
- B. Fuel (coal, wood and petroleum)
  - (Sources, quantity, ownership, labor availability, fire hazard in forests.)
- C. Agricultural and marine materials
  - (Sources--amount, quality, producing areas, possibility of expanding production, distribution by use.)
- D. Stocks and storage facilities
  - (Known stocks, itemized and located; fuel storage--petroleum products, coal, gas--in bulk and in service tanks, barrels, tins.)

## 66. Electric Power

## A. Thermal plants

(Location, vulnerability; capacity in k.w., k.v.a. or h.p., and size; K.W.H. output; current characteristics; transmission, distribution, and area served; operator; source of replacement parts.)

## B. Hydro-electric plants

(Dams--types, size, etc.; water diversion; type, number and capacity of turbo generators.)

## C. Consumer distribution

(Type of current; types of plugs and appliances; source of power; transformer and substations; transmission--overhead or underground; power consumed in K.W.H.; loads--maximum recorded and total connected in k.w.; principal use; available surplus power.)

## 67. Manufacturing Plants

## A. Iron and steel

(Location, physical description, production, raw materials used, destination of final product, power-water-fuel requirements, labor quality and availability, vulnerability to sabotage and bombing, usefulness to invading forces.)

## B. Light metals

## C. Other metals

## D. Industrial and agricultural machines

## E. Military equipment

## F. Chemical and allied industries

(Describe as in 67 A for: acids, causticizers, fertilizers, plastics; etc.; explosives and chemical warfare agents; pharmaceutical--soap, vitamins, serums, antiseptics, etc.; para chemicals--cellulose, rubber, leather, etc.; building materials; gas manufacture and coal-tar product distillation.)

## CHAPTER VII

COMMUNICATIONS AND TRANSPORTATION

## 70. General

## A. Communications

## B. Transportation

## 71. Radio and Special Wireless Services

## A. The radio system (broadcasting stations, administration, reception of broadcasts)

## B. Point-to-point communication

## C. Communication with aircraft

## D. Communication with ships

## E. List of radio stations

## 72. Telegraph, Telephone and Submarine Cable

## A. Telegraph

(Pattern of network and localization of lines; stations; route equipment; local stocks of construction materials; standard of maintenance; administration; availability of trained personnel; vulnerable features.)

## B. Telephone

(Pattern of network and localization of lines; trunk lines, rural lines; centrals; route equipment.)

## C. Submarine cables

(Port of arrival and farther terminus; administration; equipment; facilities for repair and storage of reserve supplies; present condition; vulnerable features.)

## 73. Postal Service

(Extent of development; type of service; reliability of system.)

- 74. Railroads  
(Pattern and strategic value; administration; track and right-of-way; type of motive power; ballast and standards of roadbed construction; locomotive and rolling stock equipment; repair facilities and yards; volume of freight and passenger traffic; capacity of lines with--existing and additional, rolling stock; vulnerable points.)
- 75. Roads  
(Pattern of system; effect of climate and weather; adjacent terrain; weight--axle load--of largest vehicle to use various road types; administration; standards of construction and quality; maintenance facilities; capacity. Description of main roads; repair facilities; water, gasoline and oil available.)
- 76. Civil and Commercial Aviation
  - A. Civil
  - B. Commercial
- 77. Merchant Marine
  - A. Description of total available tonnage
  - B. Immobilized tonnage by type and location
  - C. Under construction
- 78. Inland Water Transport
  - A. Rivers  
(Channel; obstructions to navigation; ports; hauling facilities; capacity.)
  - B. Canals  
(Water sources; capacity; hauling facilities; vulnerability.)
  - C. Lakes  
(Size; seasonal change; hauling facilities; vulnerability.)

## CHAPTER VIII

PORT FACILITIES

- 80. General Description
  - A. Major ports
  - B. Minor ports
- 81. Description of Ports in Specific Category
  - A. Name of port
    - (1) Harbor (location, type, depth, size, shelter, anchorage, local weather)
    - (2) Landing facilities (description by piers or quays, including warehouses, supply dumps, harbor craft)
    - (3) Clearance facilities
    - (4) Availability of supplies (water, oil, coal, electricity, and other)
    - (5) Repair facilities (drydocks, marine railways, repair plants)
    - (6) Construction facilities
    - (7) Vulnerability
    - (8) War damage estimate
  - B. Name of port
  - C. Name of port
- 82. Minor Ports  
(Sub-topics as in 81)

CHAPTER IX

PEOPLE AND GOVERNMENT

90. General Description
91. Population--Physical Characteristics
92. Population--Cultural Characteristics
93. Health and Sanitation (Technical information to be in an appendix)
94. Social Structure and Social Conditions
95. Governmental Organization
96. Security and Public Order
97. Political Factors

(Chapters X-XIII to be bound in looseleaf form)

CHAPTER X

ARMY (EXCEPT AIR)

- 100. General Description
- 101. Strength Statistics
- 102. Organization
  - A. Command and staff
  - B. Subordinate units
- 103. Personnel Characteristics
  - A. General
  - B. Officers
  - C. Enlisted men
- 104. Finance
  - A. Rate of pay
  - B. Military budget
- 105. Supply and Equipment
  - A. Infantry
  - B. Cavalry
  - C. Artillery
  - D. Armored tanks
  - E. Transportation
  - F. Ammunition
  - G. Other equipment
- 106. Mobilization System
  - A. Territorial structure
  - B. Draft and training of personnel
  - C. Mobilization
- 107. Strategic and Tactical Doctrines
- 108. Training, Morale, and Efficiency
- 109. Fortifications

CHAPTER XI

ARMY AIR

- 110. General Description
  - A. History and traditions
  - B. Establishment and efficiency
- 111. Strength
  - A. Aircraft
  - B. Personnel
- 112. Organization
  - A. Central administration
  - B. Tactical organization



- 113. Personnel Characteristics, Officers and Enlisted Men
- 114. Finance
  - A. Rates of pay
  - B. Air budget
- 115. Supply and Equipment
  - A. Production
  - B. Imports and exports
  - C. Aircraft
  - D. Maintenance
- 116. Training, Morale and Efficiency
  - A. Recruiting
  - B. Training
  - C. Strategic and tactical doctrines
- 117. Disposition
- 118. Air Bases
- 119. Defense Zones

## CHAPTER XII

### NAVY (EXCEPT AIR)

- 120. General Description
- 121. Organization
  - A. Central administration
  - B. Naval districts
- 122. Fleet
  - A. Strength
  - B. State of units
  - C. New construction
  - D. Fleet organization
  - E. Camouflage and identification markings
- 123. Personnel
  - A. Numbers
  - B. Personalities
  - C. Efficiency and morale
  - D. Training
- 124. Base Facilities (refer to Chapter VIII for commercial facilities)
  - A. Name of base or dockyard
    - (1) Harbor (location, type, depth, size, shelter, anchorage, local weather)
    - (2) landing facilities (description by piers or quays, including warehouses, supply dumps, harbor craft)
    - (3) Clearance facilities
    - (4) Availability of supplies (water, oil, coal, electricity and other)
    - (5) Repair facilities (drydock, marine railways, repair plants)
    - (6) Construction facilities
    - (7) Vulnerability
    - (8) War damage estimate
  - B. Name of base or dockyard

125. Protective Measures

- A. Mine fields
- B. Coast defense

CHAPTER XIII

NAVY AIR

130. General Description

- A. History and traditions
- B. Establishment and efficiency

131. Strength

- A. Aircraft
- B. Personnel

132. Organization

- A. Central administration
- B. Tactical organization

133. Personnel Characteristics, Officers and Enlisted Men

134. Finance

- A. Rates of pay
- B. Air budget

135. Supply and Equipment

- A. Production
- B. Imports and exports
- C. Aircraft
- D. Maintenance

136. Training, Morale and Efficiency

- A. Recruiting
- B. Training
- C. Strategic and tactical doctrines

137. Disposition

138. Seaplane Bases

139. Defense Zones

APPENDICES

APPENDIX I  
Glossary

APPENDIX II  
Health and Sanitation